## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21973

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : F26B 21/06  US CL : 141/98,66; 414/217,940  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 141/98,66; 414/217,940		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
A,E US 6,641,350 B2 (NAKASHIMA et al.) 04 Novemb	US 6,641,350 B2 (NAKASHIMA et al.) 04 November 2003 (04.11.2003), see entire 1-14	
document.  US 6,030,208 A (WILLIAMS et al.) 29 February 20	document. US 6,030,208 A (WILLIAMS et al.) 29 February 2000 (29.02.2000), see entire document.	
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Further documents are listed in the continuation of Box C.	See patent family annex.	1.51
Special categories of cited documents:      "A" document defining the general state of the art which is not considered to be of particular relevance      "E" earlier application or patent published on or after the international filing date	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	p when the document is
"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in th	e art
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report $0.6 \pm 0.04$	
05 January 2004 (05.01.2004)  Name and mailing address of the ISA/IIS	Authorized officer / 1/ 0	<del>'  </del>
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents  P.O. Box 1450  Alexandria, Virginia 22313-1450  Facsimile No. (703)305-3230	Authorized officer Steven O. Douglas  Telephone No. 703-308-0861	Jan 1997

Form PCT/ISA/210 (second sheet) (July 1998)